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Pages:257 - 263
[\[Abstract\]](#) [\[PDF Full-Text \(508 KB\)\]](#) IEEE JNL

2 Four-quadrant brushless ECM drive with integrated current regulation

*Becerra, R.C.; Ehsani, M.; Jahns, T.M.;*Industry Applications, IEEE Transactions on , Volume: 28 , Issue: 4 , July-Aug 1992
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[\[Abstract\]](#) [\[PDF Full-Text \(792 KB\)\]](#) IEEE JNL

4 Four quadrant brushless ECM drive with integrated current regulation

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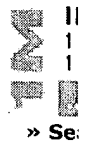
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Magnetics, IEEE Transactions on , Volume: 16 , Issue: 5 , Sep 1980

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Califano, H.T.;

Aerospace and Electronic Systems Magazine, IEEE , Volume: 9 , Issue: 8 , Aug 1994

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3 Commutation of SR motors

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5 Integrated current regulation for a brushless ECM drive*Jahns, T.M.; Becerra, R.C.; Ehsani, M.;*

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Pages:1110 - 1117

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Electric Machines and Drives Conference Record, 1997, IEEE International , 18 May 1997

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Industrial Electronics, 2002. ISIE 2002. Proceedings of the 2002 IEEE International Symposium on , Volume: 2 , 8-11 July 2002

Pages:373 - 377 vol.2

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Position Location and Navigation Symposium, 1994., IEEE , 11-15 April 1994

Pages:813 - 816

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Industry Applications Society Annual Meeting, 1992., Conference Record of the 1992 IEEE , 4-9 Oct. 1992

Pages:482 - 489 vol.1

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12 Four-quadrant sensorless brushless ECM drive

Becerra, R.C.; Jahns, T.M.; Ehsani, M.;

Applied Power Electronics Conference and Exposition, 1991. APEC '91. Conference Proceedings, 1991., Sixth Annual, 10-15 March 1991

Pages:202 - 209

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13 Composite control of direct-drive robots

Taylor, D.G.;

Decision and Control, 1989., Proceedings of the 28th IEEE Conference on, 13 Dec. 1989

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14 Integrated current regulation for a brushless ECM drive

Jahns, T.M.; Becerra, R.C.; Ehsani, M.;

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Title

Four-quadrant sensorless brushless ECM drive.

Author(s)

Becerra-R-C; Jahns-T-M; Ehsani-M.

Author affiliation

GE Motors, Fort Wayne, IN, USA.

Source

APEC '91. Sixth Annual Applied Power Electronics Conference and Exposition. Conference Proceedings (Cat. No.91CH2992-6), Dallas, TX, USA, 10-15 March 1991, p.202-9.
Sponsors: IEEE, Power Sources Manuf. Assoc.
Published: IEEE, New York, NY, USA, 1991, 646 pp.

ISSN

ISBN: 0-7803-0024-6, CCCC: CH2992-6/91/0000-0202 (\$01.00).

Publication year

1991.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

P Practical.

Abstract

A four-quadrant brushless **electronically commutated motor** (ECM) drive is presented which provides high-quality torque control without discrete current sensors or a **rotor position** sensor. **Rotor position** feedback is developed by extracting sufficient information from the **motor** back-EMF voltage waveforms, and current feedback is provided by current sensors integrated into MOS-gated power switches (MOSFETs or IGBTs). Controller parts count is minimized using a custom VLSI chip which performs the **rotor position** sensing, pulse-width-modulated (PWM) current regulation, and various protection functions. The interface between the low-power logic and inverter power switches is accomplished using a high-voltage integrated circuit (HVIC) gate-driver for each of the three phase legs. Experimental results using a compact prototype ECM drive card are presented which demonstrate the desired four-quadrant performance without discrete sensors. (9 refs).

Descriptors

commutation; electric-drives; electric-motors; feedback; invertors;
machine-control; position-control; power-integrated-circuits; power-transistors; pulse-width-
modulation; rotors; torque-control; VLSI.

Keywords

machine control; **position** control; power transistors; ECM; drive; brushless **electronically commutated motor**; torque control; **rotor**; feedback; back EMF; current sensors; MOSFETs; IGBTs; VLSI; PWM; protection; logic; inverter; HVIC; gate driver; four quadrant performance.

Classification codes

B8510 (Drives).
B8310 (a.c. machines).
B8320 (d.c. machines).
B8360 (Power convertors and power supplies to apparatus).
B1210 (Power electronics, supply and supervisory circuits).
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Industry Applications, IEEE Transactions on , Volume: 35 , Issue: 4 , July-Aug 1999

Pages:819 - 824

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) IEEE JNL
2 **A contactless capacitive angular-position sensor**

Gasulla, M.; Xiujun Li; Meijer, G.C.M.; van der Ham, L.; Spronck, J.W.;

Sensors, 2002. Proceedings of IEEE , Volume: 2 , 12-14 June 2002

Pages:880 - 884 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(666 KB\)\]](#) IEEE CNF
3 **Operation of the permanent magnet synchronous machine without a mechanical sensor**

Schroedl, M.;

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Pages:51 - 56

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Pages:359 - 363 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) IEEE CNF

5 Impact of axial and radial rotor offset on the measurement error of capacitive angular-position sensor with modified front-end topology

Fabian, T.; Brasseur, G.; Hauser, H.;

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Proceedings of the 16th IEEE , Volume: 3 , 24-26 May 1999

Pages:1362 - 1366 vol.3

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6 Effects of time-varying loads on rotor fault detection in induction machines

Schoen, R.R.; Habetler, T.G.;

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Pages:900 - 906

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7 Magnetic analysis of a switched reluctance motor using a boundary element-finite element coupling method

Fauchez, M.B.;

Magnetics, IEEE Transactions on , Volume: 24 , Issue: 1 , Jan. 1988

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8 The two switched reluctance motors parallel drive system

Hao Chen; Guilin Xie; Jianguo Jiang;

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Pages:569 - 572 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(648 KB\)\]](#) IEEE CNF

9 A new rotor time constant update rule using stator flux estimates for induction motor

Kang, G.; Jung, J.; Nam, K.;

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10 Variable reluctance permanent magnet motors for high specific out

Harris, M.R.; Mecrow, B.C.;

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Pages:437 - 442

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11 Virtual rotor grounding of capacitive angular position sensors

Brasseur, G.; Fulmek, P.L.; Smetana, W.;

Instrumentation and Measurement, IEEE Transactions on , Volume: 49 , Issue 5 , Oct. 2000

Pages:1108 - 1111

[\[Abstract\]](#) [\[PDF Full-Text \(104 KB\)\]](#) **IEEE JNL**

12 Machine inductances on variable frequency supplies

Norris, W.T.; Luff, S.; Garvey, S.D.;

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Pages:8/1 - 8/4

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13 Adaptive control of variable reluctance motors: a spline function approach

Bortoff, S.A.; Kohan, R.R.; Milman, R.;

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14 A new sensorless position detector for SR drives

Mvungi, N.H.; Lahoud, M.A.; Stephenson, J.M.;

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Pages:249 - 252

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15 Real-time detection of developing cracks in jet engine rotors

Eric, H.;

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16 Initial rotor angle detection of a nonsalient pole permanent magnet synchronous machine

Schmidt, P.B.; Gasperi, M.L.; Ray, G.; Wijenayake, A.H.;

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17 Virtual rotor grounding of capacitive angular position sensors

Brasseur, G.; Fulmek, P.L.; Smetana, W.;

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18 A field-oriented induction motor drive with a nonlinear state observer

Dalla Mora, M.; Manes, C.; Parasiliti, F.;

Systems, Man and Cybernetics, 1993. 'Systems Engineering in the Service of Humans', Conference Proceedings., International Conference on, 17-20 Oct. 1993

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19 Brushless exciter modeling for small salient pole alternators using elements

Darabi, A.; Tindall, C.;

Energy Conversion, IEEE Transactions on, Volume: 17, Issue: 3, Sept. 2002
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26 A capacitive 4-turn angular-position sensor*Brasseur, G.;*

Instrumentation and Measurement, IEEE Transactions on , Volume: 47 , Issue 1 , Feb. 1998

Pages:275 - 279

[\[Abstract\]](#) [\[PDF Full-Text \(184 KB\)\]](#) [IEEE JNL](#)**27 Noncontact capacitive torque sensor for use on a rotating axle***Wolffenbuttel, R.F.; Foerster, J.A.;*

Instrumentation and Measurement, IEEE Transactions on , Volume: 39 , Issue 6 , Dec 1990

Pages:1008 - 1013

[\[Abstract\]](#) [\[PDF Full-Text \(452 KB\)\]](#) [IEEE JNL](#)**28 An incremental capacitive sensor for harsh environment***Brandsttter, B.; Brasseur, G.; Cermak, S.; Zang, H.; Fulmek, P.L.;*

Sensors, 2002. Proceedings of IEEE , Volume: 2 , 12-14 June 2002

Pages:841 - 842 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) [IEEE CNF](#)**29 Torsional inchworm ultrasonic piezomotor combining continuous rotation with precise control over angular positions and high torque output***Zhang, Q.M.; Glazounov, A.;*

Ultrasonics Symposium, 1999. Proceedings. 1999 IEEE , Volume: 1 , 17-20 Oct 1999

Pages:661 - 665 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) [IEEE CNF](#)**30 Performance prediction in saturated variable reluctance and hybrid motors***Finch, J.W.; Metwally, H.M.B.; Agber, J.A.;*

Power Electronics and Variable-Speed Drives, 1991., Fourth International Conference on , 17-19 Jul 1990

Pages:231 - 236

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Salon, S.; Bhatia, S.; Burow, D.;

Magnetics, IEEE Transactions on , Volume: 33 , Issue: 2 , March 1997
Pages:2018 - 2021

[Abstract] [PDF Full-Text (348 KB)] IEEE JNL

32 **Capacitive sensor for incremental angular measurement**

Cermak, S.; Brasseur, G.; Zangl, H.; Fulmek, P.L.;

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Pages:115 - 118

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33 **Adaptive control of variable reluctance motors using spline function**

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Decision and Control, 1994., Proceedings of the 33rd IEEE Conference on , Vo 2 , 14-16 Dec. 1994
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34 **Angular position adaptive control of a squirrel-cage-induction-ma**

Bonilla, M.; Amestegui, O.M.; Siller-Alcala, I.I.; Galindo, R.;

Decision and Control, 1994., Proceedings of the 33rd IEEE Conference on , Vo 1 , 14-16 Dec. 1994
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35 **Non-contact capacitive torque sensing on a rotating conductive axis**
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Conference Record., 7th IEEE , 13-15 Feb. 1990
Pages:136 - 140

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36 **Investigation of the effects of design parameters on output characteristics of capacitive angular displacement sensors by finite element field modelling**

Khan, S.H.; Finkelstein, L.; Abdullah, F.;
Magnetics, IEEE Transactions on , Volume: 33 , Issue: 2 , March 1997
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37 **A capacitive 4-turn angular-position sensor**

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Proceedings. 'Sensing, Processing, Networking', IEEE , Volume: 2 , 19-21 Ma
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